

Canon

MACRO RING LITE MR-14EX II

English

Introduction

The Canon Macro Ring Lite MR-14EX II is a flash unit for shooting close-ups with Canon EOS cameras, compatible with E-TTL II/E-TTL/TTL autoflash systems. The flash unit is equipped with various functions suitable for a wide range of shooting objectives, from simple shooting to advanced shooting. It has functions to control the flash ratio between flash tubes A and B, single-side firing, wireless multiple flash shooting using additional slave flash units, and manual flash.

- **Read this instruction manual while also referring to your camera's instruction manual.**

Before using the product, read this instruction manual and your camera's instruction manual to familiarize yourself with their operations.

Using the MR-14EX II with a Camera

- **Using with an EOS DIGITAL camera (Type-A camera)**
You can use the MR-14EX II for easy macro flash shooting by autoflash control in the same way as a camera's built-in flash.
- **Using with an EOS film camera**
 - **Camera with an E-TTL II/E-TTL autoflash system (Type-A camera)**

You can use the MR-14EX II for easy macro flash shooting by autoflash control in the same way as a camera's built-in flash.

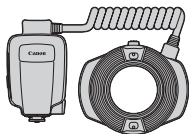
- **Camera with a TTL autoflash system (Type-B camera)**

See page 76.

*** This instruction manual assumes that the MR-14EX II is used with a Type-A camera.**

Item Check List

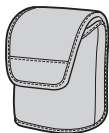
Before starting, check that all the following items are included with your MR-14EX II. If anything is missing, contact your dealer.



MR-14EX II



Lens Cap
(p.16)



Case

* Be careful not to lose any of the above items.

Conventions Used in this Manual

Icons in this Manual

-  : Indicates the Select dial.
-  : Indicates the Set button.
-    : Indicates that the respective function remains active for 4 sec., 6 sec., 8 sec., 10 sec., or 16 sec. after you let go of the button.
-   : Indicates that the respective function remains active for 10 sec. or 16 sec. after you let go of the button.
- (p.**)
-  : Reference page numbers for more information.
-  : Warning to prevent shooting problems.
-  : Supplemental information.
-  : ☆ shown to the right of the page title indicates that the function is performed when the camera's shooting mode is set to <**P/Tv/Av/M/B**> (Creative Zone mode).

Basic Assumptions

- The operation procedures assume that both the camera and the MR-14EX II's power switches are set to <ON>.
- The icons used for buttons, dials and symbols in the text match the icons found on the camera and the MR-14EX II.
- The operation procedures assume that the menu and Custom Functions of the camera, and the Custom Functions and Personal Functions of the MR-14EX II are at their default settings.
- All figures are based on the use of four AA/LR6 alkaline batteries and Canon's testing standards.
- The operation procedures assume that a macro lens is used.

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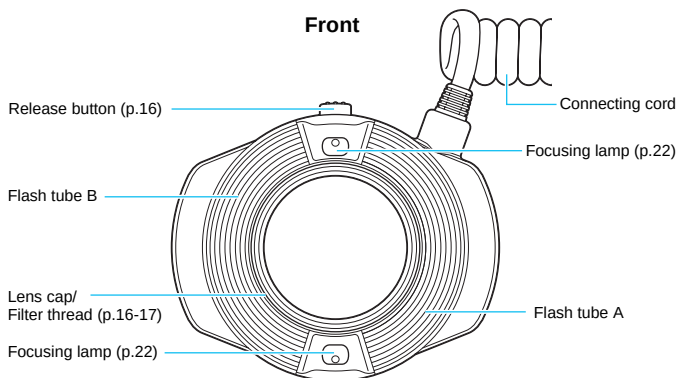
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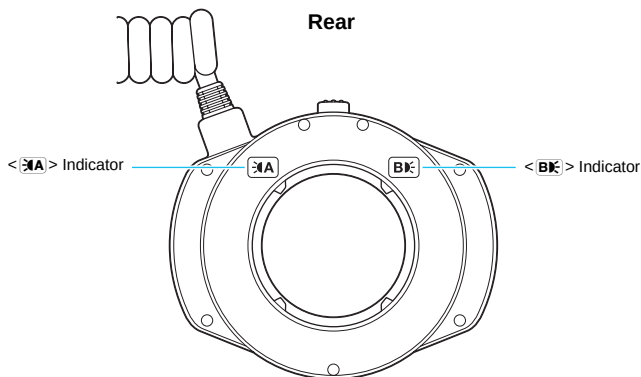
Nomenclature

Flash Unit

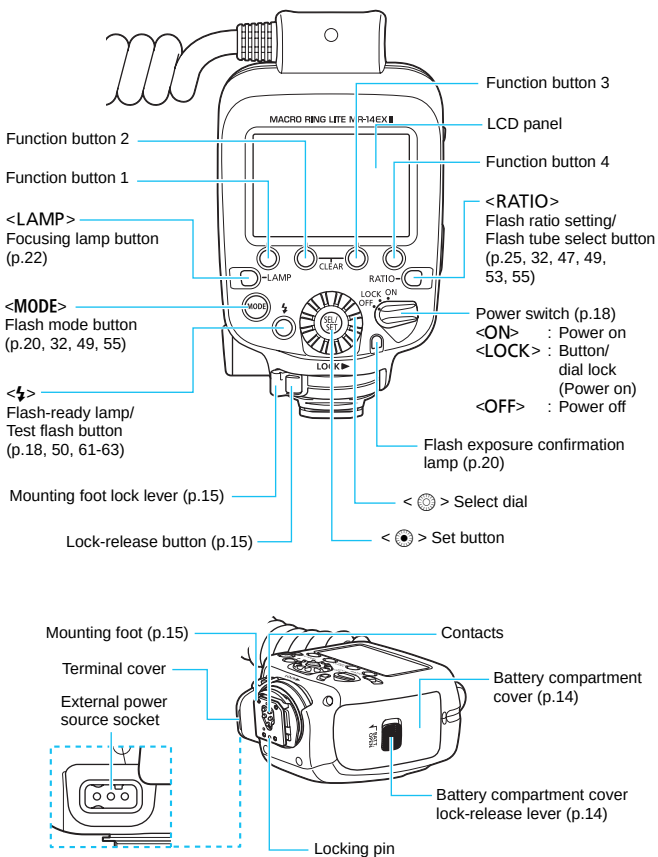
Front



Rear

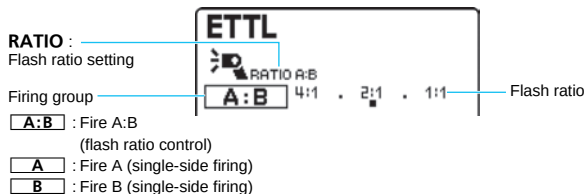
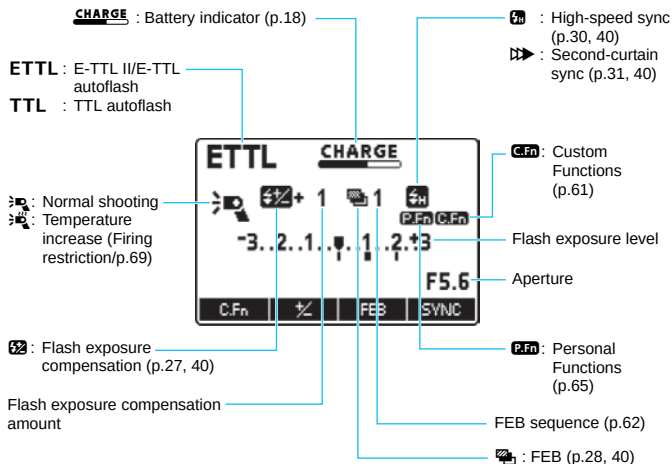


Control Unit



LCD Panel

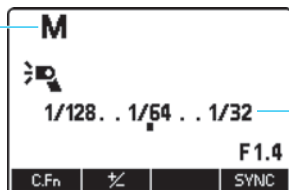
E-TTL II/E-TTL/TTL autoflash (p.21)



- The screens shown are examples. The display will show only the settings currently applied.
- The functions, such as **C.Fn** and **1/2**, displayed above function buttons 1 to 4, change according to the settings.
- When a button or dial is operated, the LCD panel illuminates (p.19).

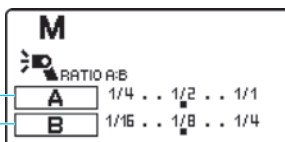
Manual flash (p.32)

M : Manual flash



Manual flash output

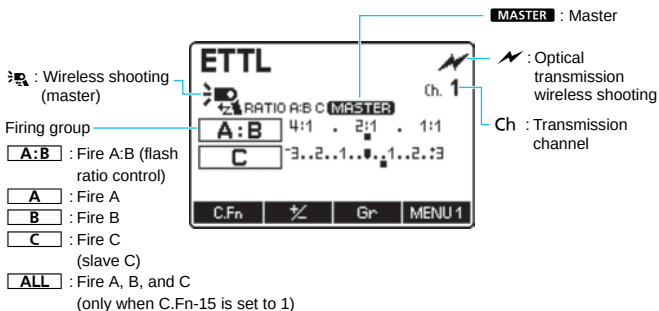
Firing group



A : Fire A

B : Fire B

Wireless multiple flash shooting with optical transmission (p.43)





Cautions for firing continuous flashes

- To avoid degrading and damaging the flash unit due to overheating, do not fire more than 20 continuous flashes. After 20 continuous flashes, allow a rest time of at least 10 min.
- If you fire 20 continuous flashes, and then fire the flash again repeatedly in short intervals, the safety function may activate and restrict flash firing. While flash firing is restricted, the firing interval is automatically set to a time between approx. 8 and 15 sec. If this happens, allow a rest time of at least 10 min.
- For details, see “Flash Firing Restriction due to Temperature Increase” on page 69.

1

Getting Started with Macro Flash Shooting

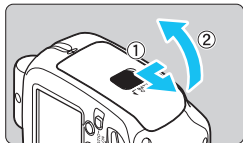
This chapter describes the preparations before starting macro flash shooting and the basic shooting operations.



- Conditions of the subject greatly influence the exposure when shooting close-ups. Therefore, it is recommended to shoot the same subject with different exposures (p.27) and check the exposure immediately after shooting.
- When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the functions with ☆ added to the right side of the page title cannot be set. Set the camera's shooting mode to **P/Tv/Av/M/B** (Creative Zone mode) to enable all the operations in this chapter.

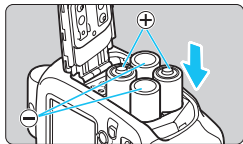
Installing the Batteries

Use four AA/LR6 batteries.



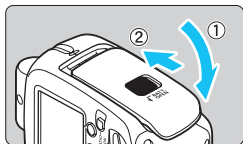
1 Open the cover.

- Slide the lock-release lever to the left as shown in the illustration, slide the cover down, then open the battery compartment cover.



2 Install the batteries.

- Make sure the “+” and “-” battery contacts are correctly oriented as shown in the battery compartment.
- The grooves on the side surfaces of the battery compartment indicate “-”. This is convenient when replacing the batteries in a dark place.



3 Close the cover.

- Close the battery compartment cover and slide it up.
- ▶ When it clicks in place, the battery compartment cover is locked.

Firing Interval and Number of Flashes

Firing Interval		Number of Flashes
Quick Flash	Normal Flash	
Approx. 0.1 to 3.3 sec.	Approx. 0.1 to 5.5 sec.	Approx. 100 to 700

- Based on new AA/LR6 alkaline batteries, both sides firing, and Canon's testing standards.
- The Quick flash function enables flash shooting before the flash is fully charged (p.18).

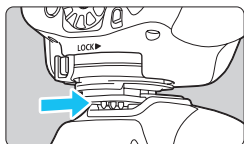


- Using AA/LR6 batteries other than the alkaline type may cause improper battery contact due to the irregular shape of the battery contacts.
- Be aware that the batteries may become hot, if you change batteries after firing flashes continuously.
- Batteries are required by the flash unit even when an external power source (p.68) is used.



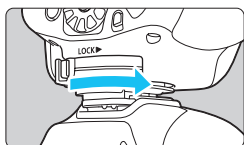
- When  is displayed, or the LCD panel display turns off during recycling, replace the batteries with new ones.
- Use a new set of four batteries of the same brand. When replacing the batteries, replace all four at one time.
- AA/LR6 Ni-MH or lithium batteries can also be used.

Attaching the Control Unit to the Camera



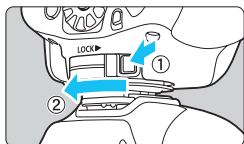
1 Attach the control unit.

- Slip the control unit's mounting foot **all the way** into the camera's hot shoe.



2 Secure the control unit.

- Slide the mounting foot lock lever to the right.
- ▶ When the lock lever clicks in place, it is locked.



3 Detach the control unit.

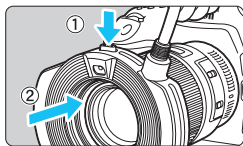
- While pressing the lock-release button, slide the lock lever to the left and detach the control unit.



Be sure to turn off the MR-14EX II before attaching or detaching it.

Attaching the Flash Unit to the Lens

Attach the flash unit to the front of the macro lens.

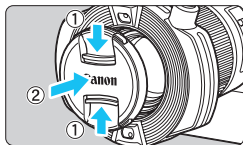


Attach the flash unit to the front of the lens while holding down the release button.

- Make sure that the flash unit is securely attached.
- When rotating the flash unit, lightly press the release button while rotating it.
- Detach the flash unit while holding down the release button.

Attaching the Lens Cap

Attach the provided lens cap to the flash unit when it is not used in order to protect the lens.



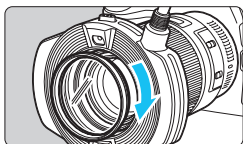
- A 67 mm diameter filter can also be attached to the flash unit (p.17).

- ⚠ Be sure to attach the flash unit to the lens when shooting. Shooting while holding the flash unit in your hand may result in a low temperature burn.
- Do not touch the flash unit or batteries immediately after continuous flash firing or modeling flash (p.23). Touching them may result in a burn. Make sure that the flash unit has cooled before detaching the flash unit or replacing batteries.

 When using the following lenses, attach the Macrolite Adapter (sold separately) to the front of the lens (filter thread) and then attach the flash unit.

- EF100mm f/2.8L Macro IS USM: Macrolite Adapter 67
- EF180mm f/3.5L Macro USM: Macrolite Adapter 72C

Using a Filter



A commercially-available filter can be used during flash shooting. A filter can be attached, using the two procedures described below. Filters may not be used together with some macro lenses.

- (1) Attach a 67 mm filter on the front face of the flash unit (see the above illustration).
- (2) Attach the flash unit to the lens with the filter attached to the front of the lens (filter thread).

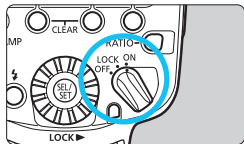
Macro Lens	Filter Compatibility	
	(1)	(2)
EF50mm f/2.5 Compact Macro	No*	Yes
EF100mm f/2.8 Macro	Yes	
EF100mm f/2.8 Macro USM		
EF100mm f/2.8L Macro IS USM		
EF180mm f/3.5L Macro USM		
EF-S60mm f/2.8 Macro USM		
MP-E65mm f/2.8 1-5x Macro Photo		

* The lens cannot be used with a filter, since focusing is interrupted by an attached filter touching the front of the lens. Also, filter may be damaged or the lens malfunction may result.

Using a Hood

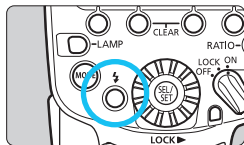
- If you want to use a dedicated hood with the MP-E65mm f/2.8 1-5x Macro Photo (sold separately), attach the flash unit after attaching the hood to the lens.
- A hood cannot be attached when using any other macro lens.

Turning on the Power



1 Set the power switch to <ON>.

- ▶ The flash recycling starts.
- ▶ During recycling, <**CHARGE**> is displayed on the LCD panel. When flash recycling is completed, this indicator disappears.



2 Check that the flash is ready.

- The state of the flash-ready lamp changes from **off** to **green** (Quick flash ready) to **red** (fully charged).
- Press the test flash button (flash-ready lamp) to fire a test flash.

Quick Flash

The Quick flash function enables flash shooting when the flash-ready lamp is lit green (before the flash is fully charged). It is available when the camera's drive mode is set to single shooting. The flash output will be approx. 1/2 to 1/5 of the full output, but it is effective for shooting with a shorter firing interval.

Note that you cannot use Quick flash when continuous shooting, FEB, manual flash, or wireless multiple flash shooting is set.

Auto Power Off

To save battery power, the power will turn off automatically after approx. 90 sec. of idle use. To turn on the MR-14EX II again, press the camera's shutter button halfway, or press the test flash button (flash-ready lamp).

- Quick flash cannot be used when the flash mode is set to <**TTL**>.
- A test flash cannot be fired when the camera's $\text{♻}4/\text{♻}6/\text{♻}8/\text{♻}10/\text{♻}16$ timer is active.

Lock Function

By setting the power switch to <LOCK>, you can disable the flash's buttons and dial operations. It is effective when you want to prevent the flash function settings from being accidentally changed after you set them.

If you operate a button or dial, <LOCKED> is displayed on the LCD panel. (The functions displayed above function buttons 1 to 4, such as < C.Fn > and < 1/2 >, are not displayed.)

LCD Panel Illumination

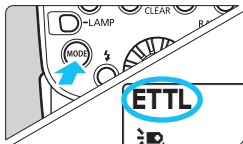
When a button or dial is operated, the LCD panel illuminates for 12 sec. If you operate them when the LCD panel is illuminated, duration of the illumination will be extended.



- The flash settings will remain in effect even after the power is turned off. To retain the settings when replacing the batteries, replace the batteries within 1 min. after turning off the power switch and removing the batteries.
- When the temperature of the flash unit has risen due to continuous flash firing, the time until auto power off takes effect may increase.
- You can fire a test flash or turn on/off the focusing lamp while the power switch is set to the <LOCK> position. Also, when a button or dial is operated, the LCD panel illuminates.
- You can fire Quick flash during continuous shooting (C.Fn-06/p.62).
- Auto power off can be disabled (C.Fn-01/p.61).
- You can select the charging method to be used when an external power source is used (C.Fn-12/p.63).
- You can change the setting of the LCD panel illumination (C.Fn-22/p.64).
- You can change the color of the LCD panel illumination (P.Fn-03/p.65).

Fully Automatic Flash Shooting

When you set the camera's shooting mode to <P> (Program AE) or a fully automatic mode, you can shoot in the E-TTL II/E-TTL fully automatic flash mode.



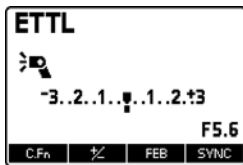
1 Set the flash mode to <ETTL>.

- Press the <MODE> button and set to <ETTL>.
- Check that <MASTER> is not displayed.



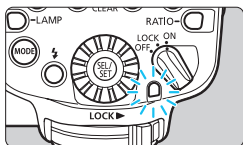
2 Focus on the subject.

- Press the shutter button halfway to focus.
- ▶ The shutter speed and aperture are displayed in the viewfinder.
- Check that <⚡> is lit in the viewfinder.



3 Take the picture.

- When you press the shutter button completely, the flash will fire and the picture will be taken.
- ▶ If a standard flash exposure was obtained, the flash exposure confirmation lamp lights for 3 sec.



- Even when attached to a camera that supports the E-TTL II autoflash, <ETTL> is displayed on the LCD panel.
- If the flash exposure confirmation lamp does not light or if the subject is dark (underexposed) when you check the image on the camera's LCD monitor, move closer to the subject and shoot again. You can also set a higher ISO speed when using a digital camera.
- "Fully automatic mode" refers to <A+>, <□>, and <CA> shooting modes.

Using E-TTL II and E-TTL Autoflash by Shooting Mode

Simply set the camera's shooting mode to <**Av**> (aperture-priority AE) or <**M**> (manual exposure) and you can perform advanced macro flash shooting using E-TTL II/E-TTL autoflash.

Av	You can perform flash shooting while obtaining a standard exposure of both the main subject and background while considering the depth of field. Select this mode when you want to set the aperture manually. The camera will then automatically set the shutter speed, matching the aperture to obtain a standard exposure. If the scene is dark, a slow sync speed will be used to obtain a standard exposure for both the main subject and background. Standard exposure of the main subject is obtained with the flash, while a standard exposure of the background is obtained with a long exposure using a slow shutter speed. ● Since a slow shutter speed will be used for low-light scenes, using a tripod is recommended. ● If the shutter speed display blinks, it means that the background exposure will be underexposed or overexposed. Adjust the aperture until the shutter speed display stops blinking.
M	Select this mode if you want to set both the shutter speed and aperture manually. Standard exposure of the main subject is obtained with the flash. The exposure of the background is obtained with the shutter speed and aperture combination you set.

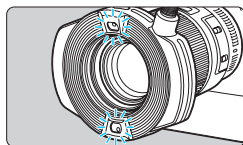
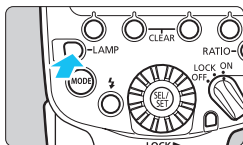
- When the shutter speed is manually set with the shooting mode set to <**Tv**> (Shutter-priority AE), the aperture will be set automatically. However, this is not recommended because the aperture cannot be set manually.
- If you use the <**DEP**> or <**A-DEP**> shooting mode, the result will be the same as using the <**P**> (Program AE) mode.

Flash Sync Speeds and Apertures Used

	Shutter Speed	Aperture
P	Automatically set (1/X sec. to 1/60 sec.)	Automatically set
Av	Automatically set (1/X sec. to 30 sec.)	Manually set
M	Manually set (1/X sec. to 30 sec., Bulb)	Manually set

- 1/X sec. is the camera's maximum flash sync speed.

Focusing Lamp



Press the <LAMP> button to light the focusing lamp for 20 sec., making focusing easier. Press the button again to turn off the lamp. The focusing lamp turns off automatically when you press the shutter button on the camera completely.

- Note that looking closely at the focusing lamp may cause vision damage.
- If you shoot when the focusing lamp is lit, underexposure may occur. If necessary, set the exposure compensation or flash exposure compensation.
- Under conditions where the flash is not fired, such as in Flash Off mode or during movie shooting, the focusing lamp will not turn off automatically even if you press the shutter button completely.

- You can change the lighting method of the focusing lamp (C.Fn-18/p.64).
- You can change the brightness of the focusing lamp (P.Fn-01/p.65).

Modeling Flash ☆

When the camera's depth-of-field preview button is pressed, the flash fires continuously for 1 sec. This feature is called "modeling flash." This is effective for checking shadow effects on the subject and the lighting balance. Modeling flash can be fired during wireless multiple flash shooting (p.44) as well.



- To avoid degrading and damaging the flash unit due to overheating, do not fire the modeling flash more than 20 times continuously. After firing it 20 times continuously, allow a rest time for at least 10 min.
- If the modeling flash is fired more than 20 times continuously, the safety function may activate and restrict flash firing. If this happens, allow a rest time for at least 10 min.
- During Live View shooting, firing modeling flash (by operating the camera) is not possible.
- Modeling flash (by operating the camera) is disabled when using the flash unit with EOS M2, EOS M, EOS Elan II/Elan II E/50/50E, EOS REBEL K2/3000V, EOS REBEL XS N/REBEL G II/3000N/66, EOS REBEL 2000/300, EOS REBEL G/500N, EOS IX, or EOS IX Lite/IX 7. Set C.Fn-02 to 1 or 2 (p.61), and fire modeling flash using the test flash button.



Modeling flash can be fired using the test flash button (C.Fn-02/p.61).

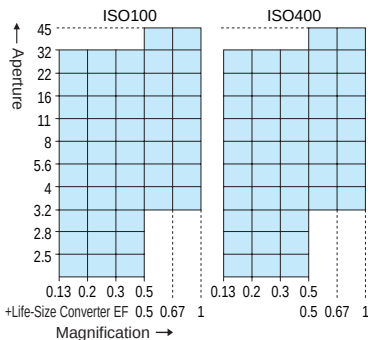
Color Temperature Information Transmission

This function optimizes the white balance during flash shooting by transmitting the color temperature information to the EOS DIGITAL camera when the flash fires. When you set the camera's white balance to <AWB> or <⚡>, the function is enabled automatically.

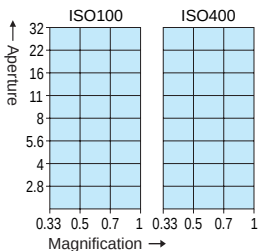
See the specifications in your camera's instruction manual to find out if it is compatible with this function.

Effective Flash Range (Reference)

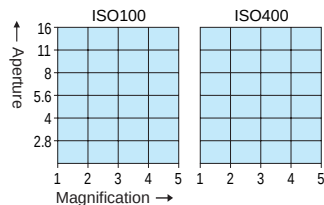
EF50mm f/2.5 Compact Macro



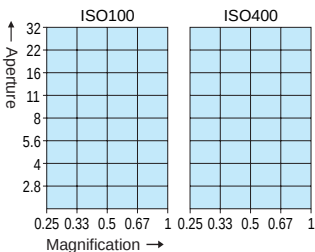
EF100mm f/2.8 Macro/
EF100mm f/2.8 Macro USM/
EF100mm f/2.8L Macro IS USM



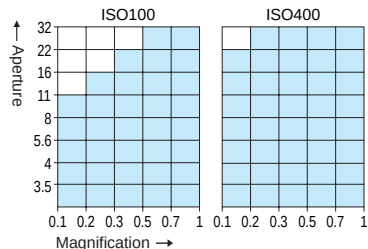
MP-E65mm f/2.8 1-5x Macro Photo



EF-S60mm f/2.8 Macro USM



EF180mm f/3.5L Macro USM



Effective flash range
(both sides firing)

A:B Setting the Flash Ratio ☆

You can adjust the flash ratio between flash tubes A and B, or fire only one of them. This can create shadows on the subject to give a more sculptural look. The flash ratio can be set in half-stop increments as follows: 8:1 to 1:1 to 1:8 (13 settings).

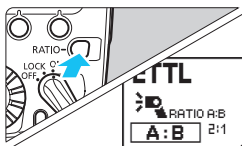


A:B = 4:1



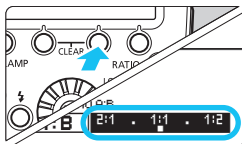
Flash tube B only

Flash with the A:B Flash Ratio Set



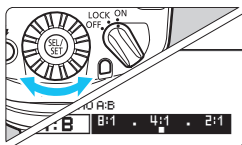
1 Set to <A:B>.

- Press the <RATIO> button to display <RATIO A:B> and <A:B>.



2 Press the <Gr> button.

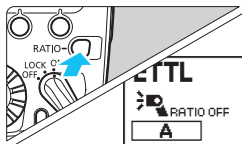
- Press function button 3 <Gr>.
- ▶ The flash ratio is highlighted.



3 Set the flash ratio.

- Turn <SEL/SET> to set the A:B flash ratio, then press <SEL/SET>.

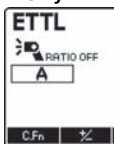
Single-side Firing



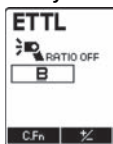
Set < **A** > or < **B** >.

- Press the <**RATIO**> button to display <**RATIO OFF**> and < **A** > or <**RATIO OFF**> and < **B** >.

Flash tube
A only



Flash tube
B only



 Flash ratio control is not available on the models listed below. Both sides will fire at the same flash output, or single-side firing will apply.

EOS Elan II/Elan II E/50/50E, EOS REBEL XS N/REBEL G II/3000N/66,
EOS REBEL 2000/300, EOS REBEL G/500N, EOS IX, EOS IX Lite/IX 7

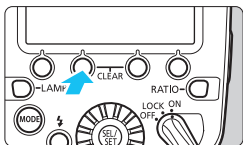
-  The flash ratio of 8:1 to 1:1 to 1:8 is equivalent to 3:1 to 1:1 to 1:3 (1/2-stop increments) when converted to the number of f/stops.
- The details of the flash ratio settings are as follows.

8:1 • 4:1 • 2:1 • 1:1 • 1:2 • 1:4 • 1:8
 5.6:1 2.8:1 1.4:1 1:1.4 1:2.8 1:5.6

- When < **A:B** >, < **A** >, or < **B** > is not displayed, flash tubes A and B will fire at the same flash output.
- When the flash mode is set to <**M**>, see pages 32-34.

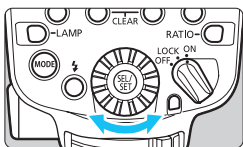
Flash Exposure Compensation ☆

In the same way as normal exposure compensation, you can set exposure compensation for flash. The flash exposure compensation amount can be set up to ± 3 stops in 1/3-stop increments.



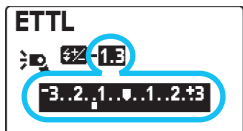
1 Press the button or .

- Press function button 2  or .
- ▶  is displayed and the flash exposure compensation amount is highlighted.



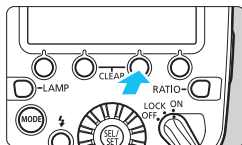
2 Set the flash exposure compensation amount.

- Turn  to set the flash exposure compensation amount, then press .
- ▶ The flash exposure compensation amount is set.
- “0.3” indicates 1/3 stops, and “0.7” indicates 2/3 stops.
- To cancel flash exposure compensation, return the compensation amount to “ ± 0 ”.



- Generally, set an increased exposure compensation for bright subjects, and set a decreased exposure compensation for dark subjects.
- If the camera's exposure compensation is set to 1/2-stop increments, flash exposure compensation will be up to ± 3 stops in 1/2-stop increments.
- When the flash exposure compensation is set on both the flash and the camera, priority is given to the flash setting.
- The flash exposure compensation amount can be set directly with  without pressing the function button 2  or  (C.Fn-13/p.63).

You can take three shots while automatically changing the flash output. This is called “FEB (Flash Exposure Bracketing)”. The settable range is ± 3 stops in 1/3-stop increments.



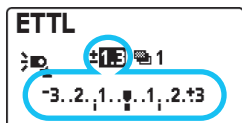
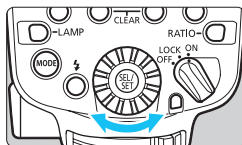
1 Press the **< FEB >** button.

- Press function button 3 **< FEB >**.
- ▶ **< FEB >** is displayed.



2 Set the FEB level.

- Turn **< [] >** to set the FEB level, then press **< [] >**.
- ▶ The FEB level is set.
- “0.3” indicates 1/3 stops and “0.7” indicates 2/3 stops.



- When used together with flash exposure compensation, FEB shooting is performed based on the flash exposure compensation amount.

When the FEB range exceeds ± 3 stops, the end of the flash exposure level shows **< [] >** or **> [] >**.

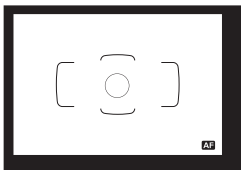


- After the three shots are taken, FEB is canceled automatically.
- Before shooting with FEB, it is recommended to set the camera's drive mode to single shooting, and check that the flash is recycled for each shot.
- You can use FEB together with flash exposure compensation or FE lock.
- If the camera's exposure compensation is set to 1/2-stop increments, flash exposure compensation will be up to ± 3 stops in 1/2-stop increments.
- You can set FEB to remain active after shooting the three shots (C.Fn-03/p.61).
- You can change the FEB shooting sequence (C.Fn-04/p.62).

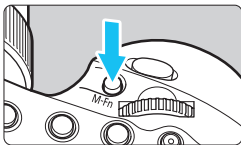
FEL: FE Lock ☆

FE (Flash Exposure) lock locks the correct flash exposure setting for any part of the scene.

While <ETTL> is displayed on the LCD panel, press the camera's <M-Fn> button. For cameras without a <M-Fn> button, press the <★> (AE lock) or <FEL> button.



1 Focus on the subject.



2 Press the <M-Fn> button. (ⓘ16)

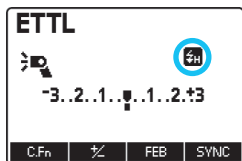
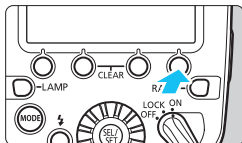
- Aim the center of the viewfinder over the subject and press the <M-Fn> button.
- ▶ The MR-14EX II fires a preflash, and the flash output required for the subject is retained in the memory.
- ▶ “FEL” will be displayed in the viewfinder for 0.5 sec.
- Each time you press the <M-Fn> button, a preflash will be fired and the new flash output required at that time is retained in the memory.



- If a correct exposure cannot be obtained when FE lock is performed, <⚡> blinks in the viewfinder. Move closer to the subject, open the aperture, and perform FE lock again. You can also set a higher ISO speed and perform FE lock again when using a digital camera.
- If the target subject is too small in the viewfinder, FE lock may not be effective.

High-speed Sync [☆]

With high-speed sync, the flash can synchronize with all shutter speeds. This is convenient when you want to shoot in the aperture-priority AE (**Av**) mode (open aperture) with background blur.



Display .

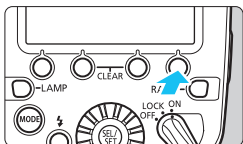
- Press function button 4 < **SYNC** > to display .
- Check that  is lit in the viewfinder.

 With high-speed sync, the faster the shutter speed, the lower the guide number will be.

-  If the set shutter speed is slower than the maximum flash sync speed,  is not displayed in the viewfinder.
- To return to normal flash shooting, press function button 4 < **SYNC** > to turn off .

▶▶ Second-curtain Sync ☆

Shooting with a slow shutter speed and second-curtain sync captures the trajectory of the light source of a moving subject in a natural way. The flash fires right before the exposure finishes (shutter closes).



Display <▶▶>.

- Press function button 4 < SYNC > to display <▶▶>.



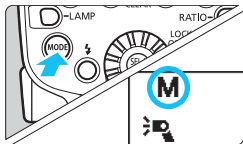
- Second-curtain sync works well when the camera's shooting mode is set to (bulb shooting).
- To return to normal flash shooting, press function button 4 < SYNC > to turn off <▶▶>.
- When the flash mode is set to <ETTL>, the flash fires twice. The first flash is a preflash to determine the flash output. It is not a malfunction.
- Second-curtain sync is disabled during wireless multiple flash shooting (p.44).

M: Manual Flash ☆

You can set the flash output from 1/1 full output to 1/128 power in 1/3-stop increments. The flash can be fired in one of the following three ways: Flash tubes A and B fired at the same output, A and B fired at different outputs, Only A or B fired.

Setting the camera's shooting mode to <Av> or <M> is recommended. First, take a test shot to check the exposure.

Firing Flash Tubes A and B at the Same Flash Output

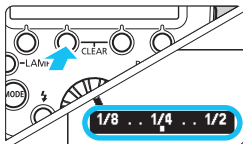


1 Set the flash mode to <M>.

- Press the <MODE> button and set to <M>.

2 Turn off <RATIO>.

- Press the <RATIO> button to turn off <RATIO>.



3 Set the flash output.

- Press function button 2 <  > or <  >.
- ▶ The flash output level is highlighted.
- Turn <  > to set the flash output, then press <  >.

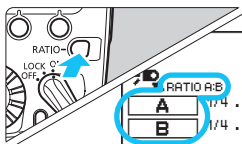


- If high-speed sync is set, the setting range will be 1/1 - 1/64.
- The guide number will differ between both sides firing and single-side firing even when the flash output settings are the same (p.75).



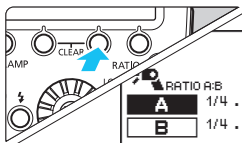
You can set the flash output directly by turning <  >, instead of pressing the function button 2 <  > or <  > (C.Fn-13/p.63).

Firing Flash Tubes A and B at a Different Flash Output



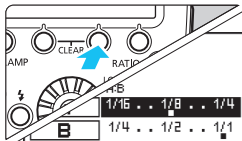
1 Set < **A** > and < **B** >.

- Press the <**RATIO**> button to display <**RATIO A:B**>, <**A**>, and <**B**>.



2 Select a flash unit.

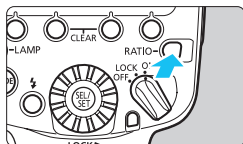
- Press function button 3 <**Gr**> or <> and turn <> to select flash unit A or B.



3 Set the flash output.

- Press function button 3 <***½**> or <>.
- Turn <> to set the flash output, then press <>.
- Repeat steps 2 and 3 to set the flash output for flash tubes A and B.

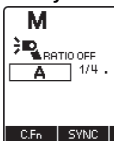
Single-side Firing



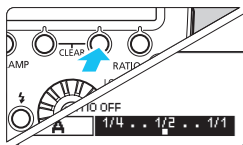
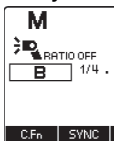
1 Set < **A** > or < **B** >.

- Press the <**RATIO**> button to display <**RATIO OFF**> and <**A**> or <**RATIO OFF**> and <**B**>.

Flash tube
A only



Flash tube
B only



2 Set the flash output.

- Press function button 3 <**1/2**> or <**1/4**>.
- Turn <**1/4**> to set the flash output, then press <**1/4**>.

Metered Manual Flash Exposures

When using an EOS-1D series camera, the flash exposure level can be manually set before shooting. This is convenient for shooting at a short distance from the subject. Use a 18% gray reflector (commercially available) and shoot as follows.

1 Configure the camera and MR-14EX II settings.

- Set the camera's shooting mode to **<M>** or **<Av>**.
- Set the MR-14EX II's flash mode to **<M>**.

2 Focus on the subject.

- Focus manually.

3 Set up an 18% gray reflector.

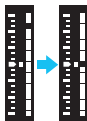
- Place the gray reflector at the subject's position.
- Aim the camera so that the entire spot metering circle at the viewfinder center is over the gray reflector.

4 Press the **<M-Fn>**, **<✳>**, or **<FEL>** button. (ⓘ16)

- ▶ The MR-14EX II will fire a preflash and the required flash output for the correct flash exposure is retained in memory.
- ▶ On the right side of the viewfinder, the exposure level indicator will show the flash exposure level against the standard exposure.

5 Set the flash exposure level.

- Adjust the MR-14EX II's manual flash level and the aperture so that the flash exposure level aligns with the standard exposure index.



6 Take the picture.

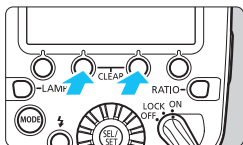
- Remove the gray reflector and take the picture.



Metered manual flash exposure is available only with EOS-1D series cameras.

Clearing MR-14EX II Settings ☆

You can return the settings of the MR-14EX II shooting functions and wireless multiple flash shooting settings to their default settings.



Press function buttons 2 and 3 simultaneously for 2 seconds or longer.

- ▶ The MR-14EX II settings are cleared and the settings will return to normal shooting and <ETTL> flash mode.

 Even when the settings have been cleared, the transmission channel during wireless multiple flash shooting as well as the Custom Function and Personal Function settings (p.58) will not be canceled.

2

Setting Flash Functions with Camera Operations

This chapter describes how to set the flash functions from the camera's menu screen.

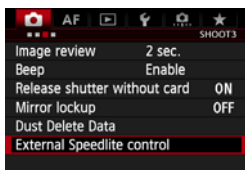


When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the operations in this chapter are not available. Set the camera's shooting mode to **P/Tv/Av/M/B** (Creative Zone mode).

Flash Control from the Camera's Menu Screen

When using EOS DIGITAL cameras released since 2007, you can set flash functions or Custom Functions from the camera's menu screen. For the camera operations, see the camera's instruction manual.

Flash Function Settings



1 Select [External Speedlite control].

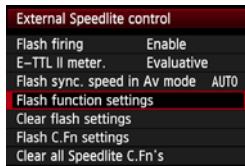
- Select [External Speedlite control] or [Flash control].

2 Select [Flash function settings].

- Select [Flash function settings] or [External flash func. setting].
- ▶ The setting screen is displayed.

3 Set the function.

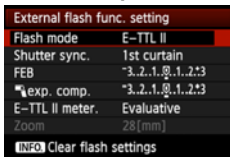
- The setting screen and items displayed vary depending on the camera.
- Select an item and set the function.



Example 1



Example 2



Settings Available in the Flash Function Settings Screen

The main settable functions from the Camera's **[Flash function settings]** or **[External flash func. setting]** screen are as follows. The settings available vary by the camera used, flash mode, etc. For details, see the next page.

Flash firing	Enable / Disable
E-TTL II flash metering	Evaluative / Average
Flash synchronization speed in Av mode	
Flash mode	E-TTL II (autoflash) / Manual flash
Shutter synchronization	1st curtain / 2nd curtain / Hi-speed
Flash exposure compensation	
FEB	
Clear (flash) settings	

Note that you cannot set "Flash ratio control" or "Wireless multiple flash shooting" with C.Fn-15-0 setting. Set them by operating the MR-14EX II. For details on restrictions (functions that cannot be set), see page 42. However, you can set other functions from the screen.



When the flash exposure compensation is set on the flash unit, flash exposure compensation cannot be performed from the camera. If both are set at the same time, priority is given to the setting on the flash unit.



- **[Flash firing]** and **[E-TTL II meter.]** are displayed in step 2 or step 3 on the preceding page (vary by the camera).
- When **[Flash sync. speed in Av mode]** is not displayed, it can be set with the camera's Custom Function.

- **Flash firing**

To perform flash shooting, set to **[Enable]**.

- **E-TTL II flash metering**

For normal exposures, set it to **[Evaluative]**. If **[Average]** is set, the flash exposure will be averaged for the entire scene metered by the camera. Flash exposure compensation may be necessary depending on the scene. This setting is for advanced users.

- **Flash synchronization speed in Av mode**

You can set the flash synchronization speed when shooting in aperture-priority AE (**Av**) mode with flash.

- **Flash mode**

You can select **[E-TTL II]** or **[Manual flash]** according to your shooting objective.

- **Shutter synchronization**

You can select the flash firing timing/method from **[1st curtain]**, **[2nd curtain]** and **[High-speed synchronization]**. To perform normal flash shooting, set **[1st curtain]**.

- **Flash exposure compensation**

In the same way as normal exposure compensation, you can set exposure compensation for flash. The flash exposure compensation amount can be set up to ± 3 stops in 1/3-stop increments.

- **FEB**

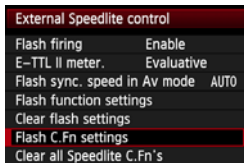
You can take three shots while automatically changing the flash output. The settable range is up to ± 3 stops in 1/3-stop increments.

- **Clear (flash) settings**

You can return the settings for flash units to their default settings.

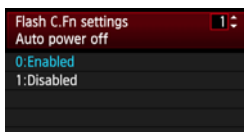
Flash Custom Function Settings

You can set Custom Functions for flash units from the camera's menu screen. The details displayed vary by the camera. If C.Fn-22 is not displayed, set it by operating the flash unit. For the Custom Functions, see pages 61-64.



1 Select [Flash C.Fn settings].

- Select [**Flash C.Fn settings**] or [**External flash C.Fn setting**].
- ▶ The flash Custom Function settings screen is displayed.



2 Set the Custom Function.

- Select the Custom Function number and set the function.
- To clear all the Custom Function settings, select [**Clear all Speedlite C.Fn's**] or [**Clear ext. flash C.Fn set.**] in step 1.



- When using a camera released in 2011 or earlier, or EOS REBEL T5/1200D, the C.Fn-22 settings are not cleared even if [**Clear all Speedlite C.Fn's**] or [**Clear ext. flash C.Fn set.**] is selected. When the procedure described in "Clearing All the Custom/Personal Functions" on page 60 is performed, all the Custom Functions are cleared.
- You cannot set or clear Personal Functions (P.Fn/p.65) from the camera's menu screen. Set them by operating the flash unit.

Functions Which Cannot Be Set from the Flash Function Settings Screen

Some of the following functions as in the tables below cannot be set from the camera's flash function settings screen (p.38). In such a case, set it by operating the MR-14EX II.

● When Custom Function C.Fn-15-0 is set

E-TTL autoflash

Functions Which Cannot Be Set From Camera	Operation on MR-14EX II
A:B flash ratio (control)	Page 25
Wireless multiple flash shooting • Transmission channel • A:B flash ratio (control) • Flash exposure compensation amount for slave C	Pages 48-50

Manual flash

Functions Which Cannot Be Set From Camera	Operation on MR-14EX II
Flash output for flash tube B when tubes A and B are fired	Page 33
Wireless multiple flash shooting • Transmission channel • Flash output for tube B • Flash output for slave C	Pages 48, 55-56

● When Custom Function C.Fn-15-1 is set

All the functions such as wireless multiple flash shooting can be set from the flash function settings screen.

 Single-side firing (p.26) is not possible when C.Fn-15-1 is set, since C.Fn-15-1 is a setting for wireless multiple flash shooting.

 For Custom Function C.Fn-15 (Macro: Wireless control), see page 63.

3

Wireless Multiple Flash Shooting

This chapter describes how to perform wireless multiple flash shooting with optical transmission, using an EX-series Speedlite (sold separately) equipped with wireless slave function.

For the accessories required for wireless multiple flash shooting, see the system map on page 68.



When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the operations in this chapter are not available. Set the camera's shooting mode to **P/Tv/Av/M/B** (Creative Zone mode).



The MR-14EX II attached to the camera is called "master", and the Speedlite (external flash unit) controlled wirelessly is called "slave".

⚡ Wireless Multiple Flash Shooting

Using an EX-series Speedlite equipped with optical transmission wireless slave function, you can easily perform wirelessly-controlled photography lit with multiple flashes.

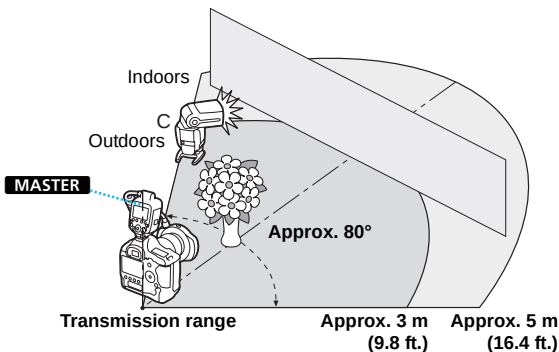
The system is designed so that the settings of the MR-14EX II (master) attached to the camera are automatically applied to the slave flash unit. Therefore, you do not need to operate the slave unit while shooting. You can then perform wireless multiple flash shooting, using E-TTL II/E-TTL autoflash by simply setting the master unit to **<ETTL>**.

Positioning and Operation Range

(Wireless multiple flash shooting examples)

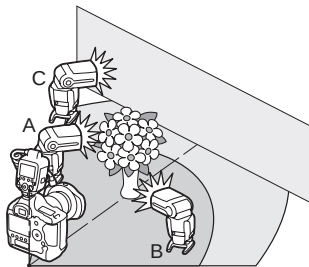
● Multiple flash shooting with slave C added (p.49)

You can perform multiple flash shooting, using flash tubes A and B of the master unit and a slave unit set to firing group C (slave C). Slave C is automatically controlled to obtain a standard exposure by firing group C alone. Therefore, it can be used to eliminate shadows on the subject or create an accent light.



● Advanced multiple flash shooting with slave A, B, and C added (p.53)

This section describes multiple flash shooting with slave C where slave A and B are also added. Slave A is controlled to fire with flash tube A and slave B to fire with flash tube B as a group (as a single flash unit).



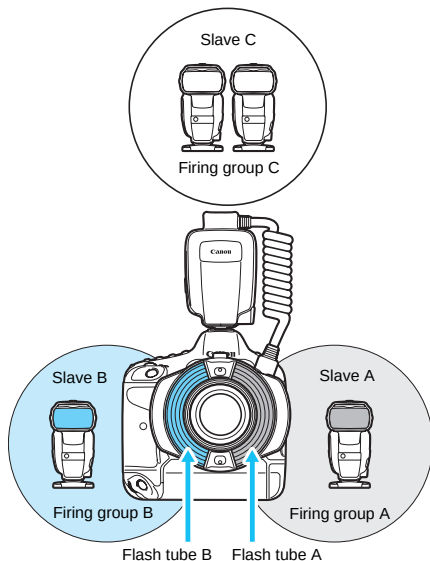
- Shooting with firing group C pointed directly toward the main subject may result in overexposure.
- Before shooting, perform a test flash (p.18) and test shooting.
- To avoid interfering with transmission, do not place any obstacles between the master unit and slave units.



- Position the sensor of the slave unit pointed toward the master unit, using the mini stand provided with the slave flash unit.
- When shooting indoors, since the transmission signal is reflected off the walls, operation may be possible even with slightly imprecise positioning.

Slave Group Control

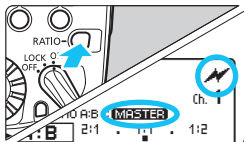
Slave A is controlled to fire with flash tube A and slave B to fire with flash tube B as a group (as a single flash unit). Multiple units can be used as slave C. There is no limit for the number of units that can be used as slave A, B, or C.



Wireless Settings

To perform wireless multiple flash shooting with E-TTL II/E-TTL autoflash, set the master unit and slave unit with the following procedure.

Master Unit Setting



Display <⚡> and <MASTER>.

- Press the <RATIO> button to display <⚡> (optical transmission wireless) and <MASTER>.

- When C.Fn-15 is set to 0 (p.63), check that <RATIO A:B C>, <A:B>, and <C> are displayed (p.49).
- When C.Fn-15 is set to 1 (p.63), press the <RATIO> button and select the flash method from the options below (p.53).
 - <RATIO OFF> and <ALL>
 - <RATIO A:B> and <A:B>
 - <RATIO A:B C> and <A:B> <C>

Slave Unit Setting

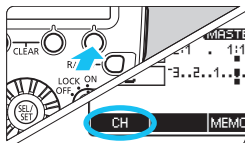
Set firing groups (A, B, and C) for the slave flash units, referring to the instruction manual of the EX-series Speedlite equipped with the slave function.



To perform normal flash shooting, press the <RATIO> button to clear the settings for the master unit.

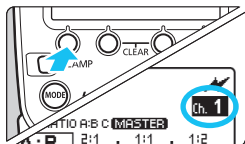
Transmission Channel Setting

To avoid interference with optical transmission wireless systems used by other photographers, you can change the transmission channel. **Set the same channel for both the master unit and slave unit.**



1 Press function button 4.

- Press function button 4 < **MENU*** > to display < **CH** > at the position above function button 1.



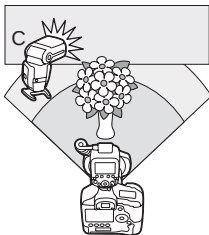
2 Set a channel.

- Press function button 1 < **CH** >.
- Turn <  > to select a channel from 1 to 4, then press <  >.

 If the transmission channels of the master unit and slave unit are different, the slave unit will not fire. Set both to the same number.

 For information on how to configure the slave communication channel, refer to the instruction manual of the EX-series Speedlite equipped with the slave function.

ETTL: Multiple Flash Shooting with Slave C Added



This section describes multiple flash shooting where slave C is added to flash tubes A and B.

1 Set the flash mode to <ETTL>.

- Press the <MODE> button and set to <ETTL>.

2 Set <A:B> and <C>.

- Press the <RATIO> button to display <RATIO A:B C>, <A:B>, and <C>.
- Check that <⚡> and <MASTER> are displayed.

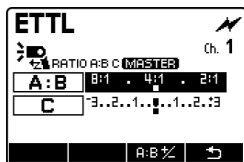


3 Check the transmission channel.

- If the channels of the master unit and slave unit are different, set them to the same number (p.48).

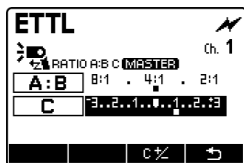
4 Set slave C and position it.

- Set the firing group of the slave unit to C, and position the unit within the range shown on page 44.



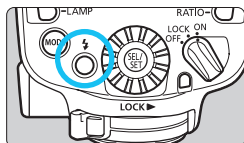
5 Set the A:B flash ratio.

- Press function button 3 < Gr >, turn < >, select < **A:B** >, then press < >.
- Turn < > to set the A:B flash ratio, then press < >.



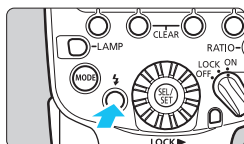
6 Set the flash exposure compensation amount for slave C.

- Turn < >, select < **C** >, then press < >.
- Turn < > to set the flash exposure compensation amount, then press < >.



7 Check that the flash is ready.

- Check that the flash-ready lamp of the master unit is lit.
- Check that the slave unit is fully charged.



8 Check the operation.

- Press the master unit's test flash button.
- ▶ Slave C fires a flash. If it does not fire, check that it is placed within the operation range.

9 Take the picture.

- Set the camera and take the picture, in the same way as with normal flash shooting.
- ▶ If a standard flash exposure was obtained, the flash exposure confirmation lamp lights for 3 sec.



- Shooting with firing group C pointed directly toward the main subject may result in overexposure.
- On the models listed below, wireless multiple flash shooting adding slave C is not available when the <**ETTL**> mode is set (with C.Fn-15-0). When the <**M**> mode is set, wireless multiple flash shooting can be performed on all type-A cameras (p.2).

EOS Elan II/Elan II E/50/50E, EOS REBEL XS N/REBEL G II/3000N/66, EOS REBEL 2000/300, EOS REBEL G/500N, EOS IX, EOS IX Lite/IX 7

- If there is a fluorescent light or computer monitor near a slave unit, the presence of the light source may cause the slave unit to malfunction and fire inadvertently.
- If you shoot or fire the test flash with slave A and B positioned when C.Fn-15-0 is set, slave A and B may fire. Turn off the slave A and B.



- You can fire the modeling flash even during wireless multiple flash shooting (p.23).
- If the slave unit's auto power off takes effect, press the master unit's test flash button to turn on the slave unit. Note that the test flash cannot be fired when the camera's $\text{4} / \text{6} / \text{8} / \text{10} / \text{16}$ timer is operating.

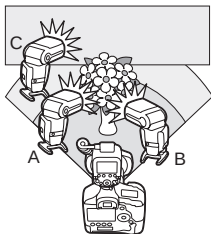
Multiple Flash Shooting Using Wireless Functions

Flash exposure compensation and other settings set on the master unit will be automatically set to the slave unit(s). You do not need to operate the slave unit. Wireless multiple flash shooting with the following settings can be performed in the same way as normal flash shooting.

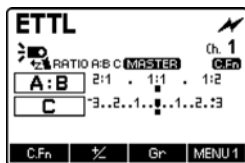
- **Flash exposure compensation** ( /p.27)
- **High-speed sync** ( /p.30)
- **FEB** ( /p.28)
- **Manual flash** (p.32, 55)
- **FE lock** (p.29)

 <  > and <  > are displayed when function button 4 <  > is pressed.

ETTL: Advanced Multiple Flash Shooting with Slave A, B, and C Added



When C.Fn-15 is set to 1 (p.63), multiple flash shooting can be performed not only with slave C but also with slave A and B. For an outline of controlling flash, see “Slave Group Control” on page 46. Multiple flash shooting can be performed with flash tubes A and B as well as the slave unit(s) firing at the same output, or with only slave A or B added, regardless of the slave’s firing group settings (p.54).



1 Set < **A:B** > and < **C** >.

- Check that the flash mode is set to < **ETTL** >.
- Press the < **RATIO** > button to display < **RATIO A:B C** > and < **A:B** > < **C** >.
- Check that < > and < **MASTER** > are displayed.

2 Set and position slave A, B, and C.

- Check that the same transmission channel is set for all slave units and the master unit.
- Set slave units as A, B, or C respectively and place them in position.

3 Take the picture.

- Set the flash ratio for the firing group (flash tube + slave) A:B and the flash exposure compensation amount for slave C, following the procedure described in “Multiple Flash Shooting with Slave C Added” (p.49), then take the picture.



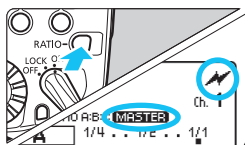
- To fire flash tubes A and B and the slave unit at the same flash output, set **<RATIO OFF>** and **<ALL>** in step 1. You can set any of A, B, or C as the firing group for the slave units.
- To add slave A and B only, set **<RATIO A:B>** and **<A:B>** in step 1.

M: Wireless Multiple Flash Shooting with Manual Flash Output

This section describes wireless multiple flash shooting using manual flash. You can shoot with a different flash output setting for each firing group. Set all the parameters on the master unit.

1 Set the flash mode to <M>.

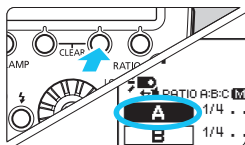
- Press the <MODE> button and set to <M>.



2 Set the firing group.

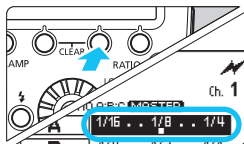
- Press the <RATIO> button to display <⚡> (optical transmission wireless) and <MASTER>.

- When C.Fn-15 is set to 0 (p.63), check that <RATIO A:B:C> and <A> <C> are displayed. You can perform wireless multiple flash shooting with slave C added.
- When C.Fn-15 is set to 1 (p.63), press the <RATIO> button and select the flash method from the options below. You can perform wireless multiple flash shooting with slave A, B, and C added.
 - <RATIO OFF> and <ALL>
 - <RATIO A:B> and <A>
 - <RATIO A:B:C> and <A> <C>



3 Select a firing group.

- When you selected <A> or <A> <C> in step 2, press function button 3 <Gr> or <⚙> and turn <⚙> to select the group you want to set the flash output for.



4 Set the flash output.

- Press function button 3 < ***½** > or <  >.
- Turn <  > to set the flash output, then press <  >.
- Repeat steps 3 and 4 to set the flash output for all groups.

5 Take the picture.

- ▶ Each group fires at the set flash output.

 If you shoot or fire the test flash with slave A and B positioned when C.Fn-15-0 is set, slave A and B may fire. Turn off the slave A and B.

 When < **ALL** > is set with C.Fn-15 set to 1, you can set any of A, B, or C as the firing group for the slave units. Each group will fire according to the set flash output.

4

Customizing the MR-14EX II

This chapter describes how to customize the MR-14EX II with the Custom Functions (C.Fn) and Personal Functions (P.Fn).

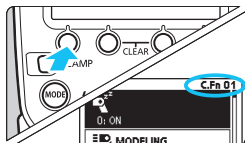


When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the operations in this chapter are not available. Set the camera's shooting mode to **P/Tv/Av/M/B** (Creative Zone mode).

C.Fn/P.Fn: Setting Custom and Personal Functions

You can customize the MR-14EX II features to suit your shooting preferences with Custom Functions and Personal Functions. Note that the Personal Functions provide you with customized settings unique to the MR-14EX II.

C.Fn: Custom Functions

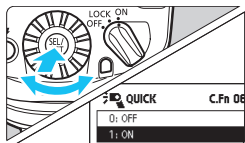


1 Display the Custom Functions screen.

- Hold down function button 1 < **C.Fn** > until the screen is displayed.
- ▶ The Custom Functions screen is displayed.

2 Select an item to set.

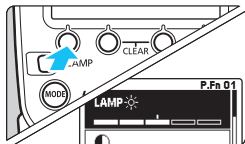
- Turn <  > to select an item (number) to set.



3 Change the setting.

- Press <  >.
- ▶ The setting item is displayed.
- Turn <  > to select the setting you want, then press <  >.
- Press function button 4 <  > to return to the shooting-ready state.

P.Fn: Personal Functions



1 Display the Personal Functions screen.

- After performing step 1 in the Custom Functions procedure, press function button 1 < **P.Fn** >.
- ▶ The Personal Functions screen is displayed.

2 Set the function.

- Set the Personal Function in the same way as steps 2 and 3 for the Custom Function.

Custom Function List

Number	Function		Page
C.Fn-01		Auto power off	p.61
C.Fn-02	 MODELING	Modeling flash	
C.Fn-03	 AUTO CANCEL	FEB auto cancel	
C.Fn-04		FEB sequence	p.62
C.Fn-05	MODE	Flash metering mode	
C.Fn-06	 QUICK	Quick flash with continuous shot	
C.Fn-07	 TEST	Test firing with autoflash	p.63
C.Fn-12		Flash recycle with external power source	
C.Fn-13		Flash exposure metering setting	
C.Fn-15	WIRELESS	Macro: Wireless control	
C.Fn-18	LAMP	Macro: Focusing lamp on/off	p.64
C.Fn-22		LCD panel illumination	

Personal Function List

Number	Function		Page
P.Fn-01	LAMP 	Focusing lamp brightness	p.65
P.Fn-02		LCD panel display contrast	
P.Fn-03		LCD panel illumination color	



If the Custom Functions screen is not displayed even if you hold down the function button 1 < **C.Fn** >, set the camera's power switch to < **OFF** >, or remove the MR-14EX II from the camera and operate.

Clearing All the Custom/Personal Functions

By pressing function button 2 < **CLEAR** > and then function button 1 < **OK** > on the Custom Functions screen, you can clear the Custom Functions that have been set.

Similarly, by performing the same operations on the Personal Functions screen, you can clear the Personal Functions that have been set.

 If C.Fn-22 is not displayed after setting the flash unit's Custom Functions from the camera's menu screen, set them using the operations described on page 58.

 You can set or clear all Custom Functions of the flash unit from the camera's menu screen (p.41).

C.Fn: Setting Custom Functions

C.Fn-01: (Auto power off)

When the MR-14EX II is not operated for approx. 90 seconds, the power turns off automatically to save energy. You can disable this function.

0: ON (Enabled)

1: OFF (Disabled)



When the temperature of the flash unit rises due to continuous flash firing etc., the time until auto power off takes effect may become longer.

C.Fn-02: MODELING (Modeling flash)

0:  (Enabled (Depth-of-field preview button))

Press the camera's depth-of-field preview button to fire the modeling flash.

1:  (Enabled (Test firing button))

Press the MR-14EX II's test flash button to fire the modeling flash.

2:  (Enabled (with both buttons))

Press the camera's depth-of-field preview button or the MR-14EX II's test flash button to fire the modeling flash.

3: OFF (Disabled)

Disables the modeling flash.



When 4/6/8/10/16 timer on the camera is operating, firing modeling flash with test flash button is not possible.

C.Fn-03: AUTO CANCEL (FEB auto cancel)

You can set whether or not to cancel FEB automatically after shooting three shots with FEB.

0: ON (Enabled)

1: OFF (Disabled)

C.Fn-04: (FEB sequence)

You can change the shooting order of the FEB sequence: 0: Standard exposure, -: Decreased exposure (darker) and +: Increased exposure (brighter).

0: 0 → - → +

1: - → 0 → +

C.Fn-05: MODE (Flash metering mode)

You can change the automatic flash metering mode for flash shooting.

0: **E-TTL II/E-TTL**

1: **TTL**

- ⓘ When using an EOS DIGITAL camera or EOS REBEL T2/EOS 300X, do not set to 1. Depending on the camera model, the flash metering may not be controlled correctly; for example, the flash may not fire, or it may always fire at full output. Also, wireless multiple flash shooting cannot be performed.
- When setting functions from the camera's menu, [2: **Auto external flash metering**] and [3: **Manual external flash metering**] may be displayed in gray. In this case, they cannot be selected.

-  • 1 is the setting for shooting with TTL autoflash on Type-A EOS film cameras or using Type-B EOS film cameras.
- When using a Type-B camera, you cannot perform E-TTL II/E-TTL autoflash shooting even when 0 is set.

C.Fn-06: QUICK (Quick flash with continuous shot)

You can set whether or not to fire Quick flash (to perform firing when the flash-ready lamp lights in green) in continuous shooting.

0: **OFF (Disabled)**

1: **ON (Enabled)**

- ⓘ When Quick flash (p.18) is fired during continuous shooting, underexposure may occur since the effective flash range becomes shorter. Setting 1 is recommended only when you want to shorten the shooting interval.

C.Fn-07: TEST (Test firing with autoflash)

You can change the flash output when firing the test flash in E-TTL II/ E-TTL/TTL autoflash mode.

0: 1/32 (1/32)

1: 1/1 (Full output)

C.Fn-12: (Flash recycle with external power source)

0:  +  (External & internal power)

Charges in parallel, using both internal and external power sources.

1:  (External power only)

You can minimize the consumption of the internal power source by using only external power source to charge for firing the flash, while internal power source is required to control the MR-14EX II.

C.Fn-13: (Flash exposure metering setting)

0:  +  (Speedlite button and dial)

1:  (Speedlite dial only)

You can set the flash exposure compensation or flash output by directly turning <  >, instead of pressing the <  > button.

C.Fn-15: WIRELESS (Macro: Wireless control)

0: C (Slave C)

During wireless multiple flash shooting, slave units set in firing group C can be wirelessly-controlled.

1: ALL (Slave A, B and C)

During wireless multiple flash shooting, slave units set in firing group A and B, as well as slave units set in firing group C can be fired as a group linked with master unit flash tube A and B, respectively.



When 1 is set, single-side firing is not possible.

C.Fn-18: LAMP (Macro: Focusing lamp on/off)

0: LAMP (With focusing lamp button)

Press the <LAMP> button to turn on/off the focusing lamp.

1: x2 (Half press shutter button twice)

Press the shutter button halfway twice quickly (double-click) to turn on/off the focusing lamp. This function is convenient when you do not have a free hand during shooting. You can also switch on/off the focusing lamp by pressing the <LAMP> button.

- ⚠ If you use AF to focus with this function set to 1, be careful how you press the shutter button. The focusing lamp may turn on accidentally.
- If you use this flash unit with EOS D60 or EOS D30, it will not operate properly even if you press the shutter button halfway twice quickly (double-click). Use the <LAMP> button to switch on/off the lamp.

C.Fn-22: (LCD panel illumination)

When a button or dial is operated, the LCD panel illuminates. You can change this illumination setting.

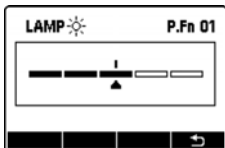
0: 12sec (On for 12 sec.)

1: OFF (Disable panel illumination)

2: ON (Illumination always on)

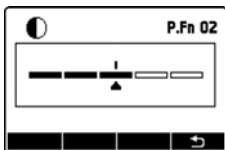
P.Fn: Setting Personal Functions

P.Fn-01: LAMP (Focusing lamp brightness)



You can adjust the brightness of the focusing lamp in 5 levels.

P.Fn-02: (LCD panel display contrast)



You can adjust the contrast of the LCD panel in 5 levels.

P.Fn-03: (LCD panel illumination color)

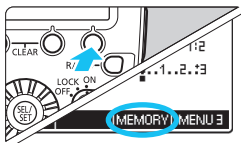
You can select the color of the LCD panel illumination.

0: GREEN (Green)

1: ORANGE (Orange)

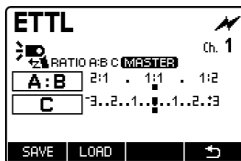
Memory Function

You can save the settings in the MR-14EX II and recall the settings later. The memory function can be used whenever **<MENU*>** is displayed on the screen, such as when the settings are configured to wireless multiple flash shooting by pressing the **<RATIO>** button, or during normal shooting when flash ratio control or single-side firing is set.



1 Press function button 4.

- Press function button 4 **<MENU*>** to display **<MEMORY>** at the position of function button 3.



2 Save or load the settings.

- Press function button 3 **<MEMORY>**.

Save

- Press function button 1 **<SAVE>**.
- ▶ The settings are saved (stored in the memory).

Load

- Press function button 2 **<LOAD>**.
- ▶ The settings that were saved are set.

- For Custom Functions, only C.Fn-15 settings are saved. Settings for Personal Functions are not saved.
- Multiple settings cannot be saved. If you perform the saving operation again, the new setting will overwrite the previous setting.

5

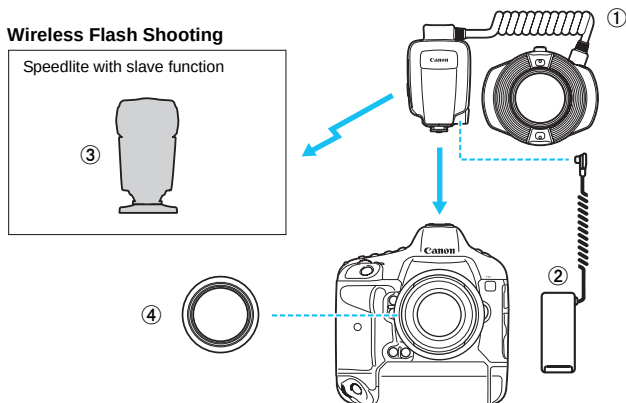
Reference

This chapter provides a system map, FAQ, and a description of using the MR-14EX II with a Type-B camera.

MR-14EX II System

Wireless Flash Shooting

Speedlite with slave function



① **Macro Ring Lite MR-14EX II**

② **Compact Battery Pack CP-E4**

An external power source that uses eight AA/LR6 batteries.

③ **Speedlite with optical transmission wireless slave function**

600EX-RT, 600EX, 580EX II, 580EX, 550EX, 430EX II, 430EX, 420EX, 320EX, 270EX II

④ **Macrolite Adapter**

An adapter to attach the flash unit to the lens (p.16).

- For external power source, use the Compact Battery Pack CP-E4. Using a non-Canon external power source may result in a malfunction.
- Speedlite units without the function to switch firing groups (A, B, and C) listed in ③ can be used as slave A during wireless multiple flash shooting. (They cannot be used as slave B or C.)

Flash Firing Restriction due to Temperature Increase

When continuous flash or modeling flash is repeatedly fired in short intervals, the temperature of the MR-14EX II may increase. Repeated firings of the flash activates the flash firing restriction automatically to avoid degrading and damaging the flash unit due to overheating. While flash firing is restricted, the warning is displayed to indicate the increase in temperature, and the firing interval is automatically set to approx. from 8 up to 15 sec.

Temperature Increase Warning

When the internal temperature of the flash unit increases, the warning is displayed in two levels.

Display	Level 1 (Firing Interval: Approx. 8 sec.)	Level 2 (Firing Interval: Approx. 15 sec.)
Icon		
LCD panel	Red (lit)	Red (blinking)

Number of Continuous Flashes and Rest Time

The following table shows the number of continuous flashes until the warning is displayed indicating the Level 1 warning, and the necessary rest time until normal flash shooting can be performed.

Function	Number of Continuous Flashes to Reach Level 1 Warning (Guideline)	Necessary Rest Time (Guideline)
Continuous flash*	48 times or more	10 min. or longer
Modeling flash (p.23)		

* At full output



- Even when Level 1 warning is not displayed, the firing interval will be extended as the flash unit begins to heat up.
- If Level 2 warning is displayed, allow a rest time for at least 15 min.
- For cautions on the number of flash firings, see page 12 (continuous flashes) or page 23 (modeling flash).
- Do not touch the flash unit or batteries immediately after firing continuous flashes or modeling flash. Touching them may result in a burn. Before detaching the flash unit or replacing batteries, make sure that the flash unit has cooled.
- When C.Fn-22-1 is set (p.64), the warning with red illumination of LCD panel will not be displayed even if the temperature of the flash unit rises.

Troubleshooting Guide

If a problem occurs with the flash, first refer to this Troubleshooting Guide. If this Troubleshooting Guide does not resolve the problem, contact your dealer or nearest Canon Service Center.

● Normal Shooting

The power does not turn on.

- Make sure that the batteries are installed in the correct orientation (p.14).
- Make sure that the battery compartment cover is closed (p.14).
- Replace the batteries with new ones.
- Insert batteries into the flash unit, even when using an external power source (p.68).

The MR-14EX II does not fire.

- Insert the mounting foot into the camera's hot shoe all the way, slide the lock lever to the right, and secure the control unit to the camera (p.15).
- If the < **CHARGE** > indication remains displayed for 30 sec. or longer, replace the batteries (p.14).
- If the electrical contacts of the control unit or camera are dirty, wipe the contacts (p.9) using a dry cloth.

The power turns off by itself.

- The MR-14EX II's auto power off has activated. Press the shutter button halfway, or press the test flash button (p.18).

Pictures are underexposed or overexposed.

- If there is a highly reflective object in the picture, use FE lock (p.29).
- If the main subject looks very dark or very bright, set flash exposure compensation (p.27).
- With high-speed sync, the faster the shutter speed, the lower the guide number will be. Move closer to the subject (p.30).
- Do not fire slave C directly pointing toward the main subject (p.44).

The picture is very blurred.

- When the shooting mode is set to the aperture-priority AE (**Av**) mode and the scene is dark, slow sync is enabled automatically (the shutter speed becomes slower). Use a tripod, or set the shooting mode to the program AE (**P**) or fully automatic mode (p.21). Note that you can also set the sync speed in [Flash sync. speed in Av mode] (p.40).

Flash ratio, flash exposure compensation, or FEB cannot be set.

- Set the shooting mode to **P/Tv/Av/M/B** (Creative Zone mode) (p.13).

● Wireless Multiple Flash Shooting with Optical Transmission

Wireless multiple flash shooting is disabled or single-side firing is disabled.

- Flash ratio control and wireless multiple flash shooting are disabled when the flash mode is set to TTL autoflash. Set C.Fn-05 to 0 (p.62).

The slave unit does not fire.

- Check that <⚡> and <MASTER> are displayed on the master unit's screen (p.47).
- Check that the firing group of the slave unit is set properly.
- Set the transmission channels of the master unit and slave unit to the same numbers (p.48).
- Check that the slave unit is within the transmission range of the master unit (p.44).
- Point the wireless sensor of the slave unit toward the master unit (p.44).
- If the master unit and slave unit are too close, the transmission may not operate properly (p.74).

Specifications

● Type

Type:	E-TTL II/E-TTL/TTL autoflash Ring-type flash unit for close-ups
Compatible cameras:	Type-A EOS cameras (E-TTL II/E-TTL autoflash) Type-B EOS cameras (TTL autoflash)

● Flash Unit

Guide No.:	Both sides firing: Approx. 14/45.9 (ISO 100, in meters/feet) Single-side firing: Approx. 10.5/34.4 (ISO 100, in meters/feet)
Flash coverage:	Approx. 80° vertically, 80° horizontally
Flash time:	Normal flash: Approx. 1.8 ms or shorter, Quick flash: Approx. 2.3 ms or shorter
Color temperature information transmission:	Flash color temperature information transmitted to camera when flash is fired
Filter:	A 67 mm filter can be attached on the front face of the flash unit
Focusing lamp:	Coverage • Upper lamp: Approx. 60° vertically and 60° horizontally • Lower lamp: Approx. 45° vertically and 45° horizontally Light intensity: Adjustable

● Exposure Control

Exposure control system:	E-TTL II/E-TTL/TTL autoflash, manual flash
Effective flash range:	Normal flash: Approx. 20 mm - 5 m / 0.79 in. - 16.4 ft. Quick flash: Approx. 20 mm - 2.7 m / 0.79 in. - 8.8 ft. (at Guide No. 7.5/24.6, in meters/feet) High-speed sync: Approx. 20 mm - 2.7 m / 0.79 in - 8.8 ft. (at 1/250 sec.) * Both sides firing, with f/2.8 lens, ISO 100 * Distance from the flash unit
Flash mode:	Both sides firing, single-side firing
Flash ratio control:	8:1 - 1:1 - 1:8, 1/2-stop increments
Flash exposure compensation:	±3 stops in 1/3- or 1/2-stop increments
FEB:	±3 stops in 1/3- or 1/2-stop increments (when used with flash exposure compensation)
FE lock:	Enabled with the camera's Multi-function button or FE lock/AE lock buttons
High-speed sync:	Enabled
Manual flash:	Normal flash: 1/1 - 1/128 power (1/3-stop increments) High-speed sync: 1/1 - 1/64 power (1/3-stop increments)
Flash exposure confirmation:	Flash exposure confirmation lamp lights
Modeling flash:	Fired with camera's depth-of-field preview button or MR-14EX II's test flash button

● Flash Recycling

Firing interval (recycling time):	Normal flash: Approx. 0.1 - 5.5 sec. Quick flash: Approx. 0.1 - 3.3 sec. * When using AA/LR6 alkaline batteries
Flash-ready lamp display:	Lights in red: normal flash available Lights in green: Quick flash available

● Optical Transmission Wireless Master Function

Connection method:	Optical pulse
Channel:	Ch. 1 - 4
Slave unit control:	Up to 3 groups (A, B, C)
Transmission range:	Indoors: Approx. 0.2 - 5 m / 0.66 - 16.4 ft. (at the front) Outdoors: Approx. 0.2 - 3 m / 0.66 - 9.8 ft. (at the front) Approx. 60° vertically and 80° horizontally

● Customizable Functions

Custom Functions:	12
Personal Functions:	3

● Power Source

MR-14EX II power source:	Four AA/LR6 alkaline batteries * AA/LR6 Ni-MH and AA/LR6 lithium batteries also usable
Battery life (number of flashes):	Approx. 100 - 700 flashes * When using AA/LR6 alkaline batteries
Power saving:	Power off after approx. 90 sec. of idle operation
External power source:	Compact Battery Pack CP-E4 can be used

● Dimensions and Weight

Dimensions (W x H x D):	Flash unit: Approx. 129.6 x 112.1 x 25.3 mm / 5.10 x 4.41 x 1.00 in. Control unit: Approx. 69.6 x 118.8 x 71.4 mm / 2.74 x 4.68 x 2.81 in.
Weight:	Approx. 455 g / 16.05 oz. (MR-14EX II only, excluding batteries)

- All specifications above are based on Canon's testing standards.
- Product specifications and external appearance are subject to change without notice.

Guide Number (Approx., ISO 100, in meters/feet)

Normal Flash

Flash Output	Both Sides Firing	Single-side Firing
1/1	14.0 / 45.9	10.5 / 34.4
1/2	9.9 / 32.5	7.4 / 24.4
1/4	7.0 / 23.0	5.3 / 17.2
1/8	4.9 / 16.2	3.7 / 12.2
1/16	3.5 / 11.5	2.6 / 8.6
1/32	2.5 / 8.1	1.9 / 6.1
1/64	1.8 / 5.7	1.3 / 4.3
1/128	1.2 / 4.1	0.9 / 3.0

High-speed Sync (at full output)

Shutter Speed	Both Sides Firing	Single-side Firing
1/125	8.9 / 29.2	6.6 / 21.7
1/160	8.5 / 27.9	6.3 / 20.7
1/200	8.0 / 26.2	6.0 / 19.7
1/250	7.6 / 24.9	5.7 / 18.7
1/320	6.2 / 20.3	4.6 / 15.1
1/400	5.5 / 18.0	4.1 / 13.5
1/500	4.9 / 16.1	3.7 / 12.1
1/640	4.4 / 14.4	3.3 / 10.8
1/800	3.9 / 12.8	3.1 / 10.2
1/1000	3.5 / 11.5	2.6 / 8.5
1/1250	3.1 / 10.2	2.3 / 7.5
1/1600	2.7 / 8.9	2.1 / 6.9
1/2000	2.4 / 7.9	1.8 / 5.9
1/2500	2.2 / 7.2	1.6 / 5.2
1/3200	1.9 / 6.2	1.5 / 4.9
1/4000	1.7 / 5.6	1.3 / 4.3
1/5000	1.5 / 4.9	1.2 / 3.9
1/6400	1.4 / 4.6	1.0 / 3.3
1/8000	1.2 / 3.9	0.9 / 3.0

Using MR-14EX II with a Type-B Camera

This section describes the functions that are available or unavailable when using the Macro Ring Lite MR-14EX II with a Type-B camera (EOS film camera supporting TTL autoflash).

When the MR-14EX II is used with autoflash with a Type-B camera, **<TTL>** is displayed on the flash unit's LCD panel.

Functions Available with Type-B Cameras

- TTL autoflash
- Both sides/single-side firing
- Flash exposure compensation
- FEB
- Manual flash
- Second-curtain sync
- Wireless multiple flash shooting: Manual flash

Functions not Available with Type-B Cameras

- E-TTL II/E-TTL autoflash
- Flash ratio control
- FE lock
- High-speed sync
- Wireless multiple flash shooting: Autoflash shooting
- Quick flash
- Modeling flash



When using with some Type-B EOS film cameras, flash exposure compensation, FEB, second-curtain sync., and other functions may be disabled.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-3 (B)/NMB-3(B)

The apparatus shall not be exposed to dripping or splashing.
Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Dry batteries shall not be subjected to charging.



Only for European Union and EEA (Norway, Iceland and Liechtenstein)

This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU) and national legislation. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/weee.

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MEMO

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The cameras and accessories referred to in this Instructions booklet are current as of January 2014. For information on compatibility with the cameras and accessories marketed after this date, contact your nearest Canon Service Center.





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- Soutien Internet en anglais au moyen du site Web : www.canon.ca/english/cs (Soutien par courrier électronique aussi disponible)
- Soutien Internet en français au moyen du site Web : www.canon.ca/francais/cs (Soutien par courrier électronique aussi disponible)
- Soutien téléphonique auprès d'un représentant du Centre de renseignements clientèle de Canon Canada, sans frais, pendant les heures normales d'ouverture au 1-800-OK-CANON (1-800-652-2666).

Lors de l'appel, assurez-vous d'avoir le numéro de série des produits et la date de son achat à portée de la main afin d'accélérer le service. Une représentante ou un représentant du Centre de renseignements clientèle de Canon tentera de déterminer la source du problème et de résoudre celui-ci par téléphone. S'il est impossible de résoudre le problème par téléphone, on vous priera de suivre les directives appropriées pour le SERVICE POSTAL. Veuillez noter qu'une preuve d'achat datée est requise lors du service d'entretien et après-vente. Il suffit de fournir une copie de votre acte de vente daté.

Les conditions du programme de soutien technique sont modifiables sans préavis.

SERVICE POSTAL

Le SERVICE POSTAL est un programme selon lequel les réparations de vos produits sont effectuées par un fournisseur de service agréé des produits de Canon U.S.A. ou Canon Canada. Vous obtenez le nom, l'adresse et le numéro de téléphone d'un fournisseur de service agréé des produits, en communiquant avec 1-800-OK-CANON (1-800-652-2666) (représentant de service clientèle Canon U.S.A./représentant de service clientèle Canon Canada). Il vous incombe d'emballer adéquatement vos produits défectueux et de le faire parvenir, à vos frais, accompagné d'une copie de votre preuve d'achat datée, d'une explication détaillée du problème et de l'adresse de retour au fournisseur de service agréé des produits. Vous ne devez inclure aucun autre article avec les produits défectueux. Les produits couverts par la présente garantie limitée seront réparés et vous seront retournés sans frais par le fournisseur de service agréé de produits. Les produits non couverts par la présente garantie limitée reçus par le fournisseur de service agréé de produits seront retournés sans avoir été réparés ou, à la discrétion du fournisseur de service agréé de produits, vous pourrez recevoir une estimation écrite des frais de réparation au coût tel qu'il est établi à l'occasion par le fournisseur de service.

La présente garantie limitée vous accorde des droits particuliers reconnus par la loi et il se peut que vous disposiez d'autres droits qui peuvent varier d'un État à un autre (ou d'une province à une autre au Canada).

* Le bloc-batterie livré avec les produits comporte une garantie limitée séparée d'une durée de quatre-vingt-dix (90) jours.

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Canon Canada Inc.

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REMARKS

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